

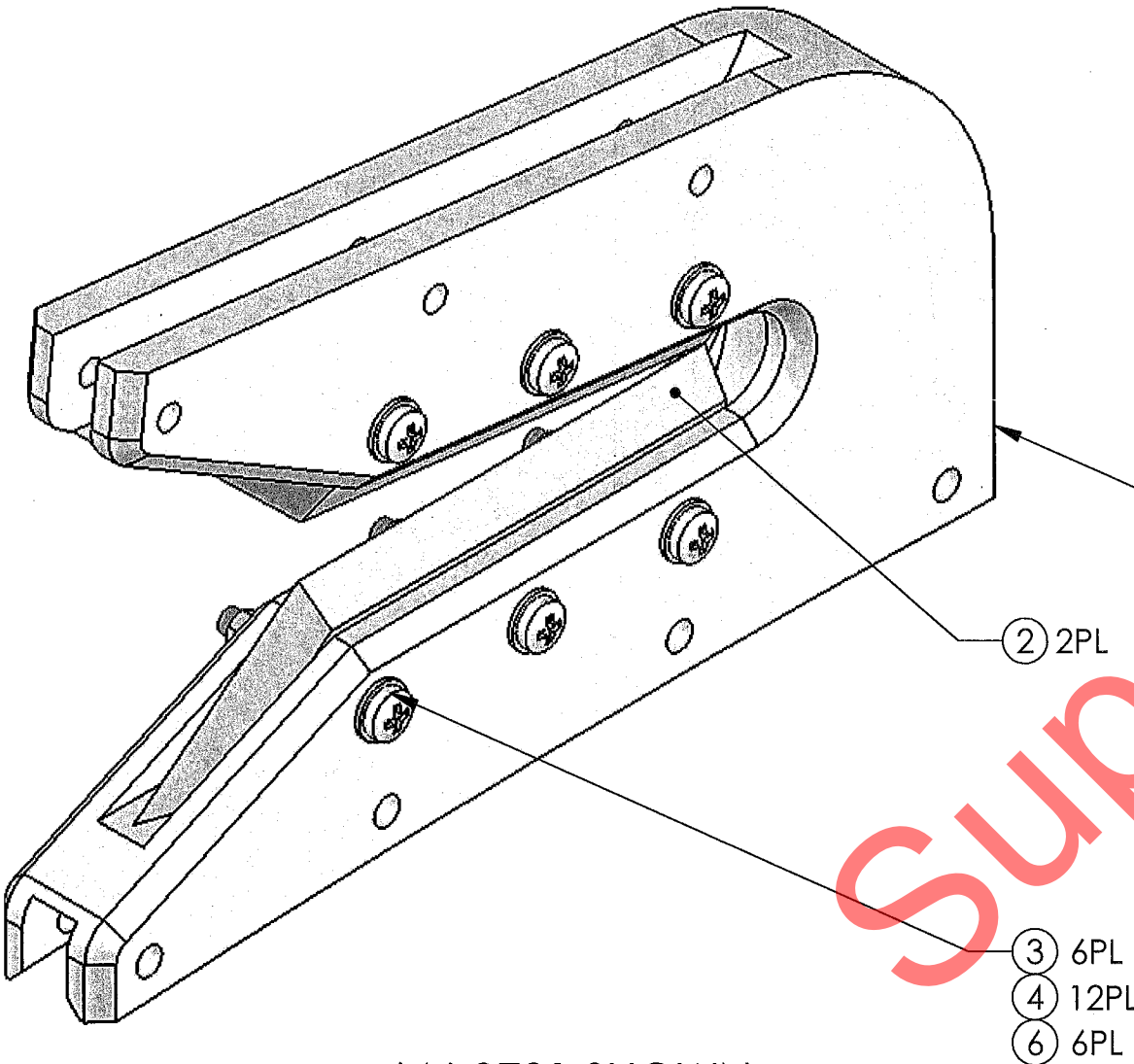
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REVISIONS				REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED	REV.	DESCRIPTION	DATE	APPROVED
E	INCORPORATED ECN 05345, 05360 & 05951	03/30/18	P. BRAVO		LAST PROTOTYPE REVISION : PR2		N/C
F	INCORPORATED ECN 06153	01/25/19	P. BRAVO	NC	INITIAL RELEASE	03/29/09	P. BRAVO
G	INCORPORATED ECN 06158	02/13/19	P. BRAVO	A	INCORPORATED ECN 02744, 03838, 03912	06/06/13	P. BRAVO
H	INCORPORATED ECN 06328	07/31/19	P. BRAVO	B	INCORPORATED ECN 03967	07/03/13	P. BRAVO
				C	INCORPORATED ECN 04039	08/09/13	P. BRAVO
				D	INCORPORATED ECN 05329	02/26/16	P. BRAVO

NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH IAW MPP-172 SECTION 2.1, 3.3 & 4.3.
- 3 MATERIAL: AISI A2 TOOL STEEL
CONDITION: ANNEALED
POST PROCESS: HEAT TREAT TO 58-62 Rc ROCKWELL HARDNESS
- 4 FINISH: PRIME IAW MPP-172 SECTION 3.3; 1-2 MIL MAX
5. DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
6. IDENTIFY IAW MPP-120
- 7 APPLY F/N 5 AS REQUIRED TO ALL FAYING SURFACES OF F/N 2 UPON ASSEMBLY
- 8 CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE
- 9 ALL DIMENSIONS NOT SPECIFIED ARE CONTROLLED BY 646.9710.

UNDER REVIEW
URN 20-010



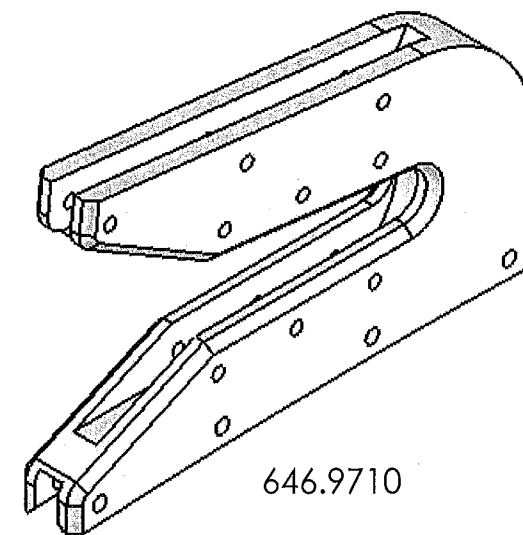
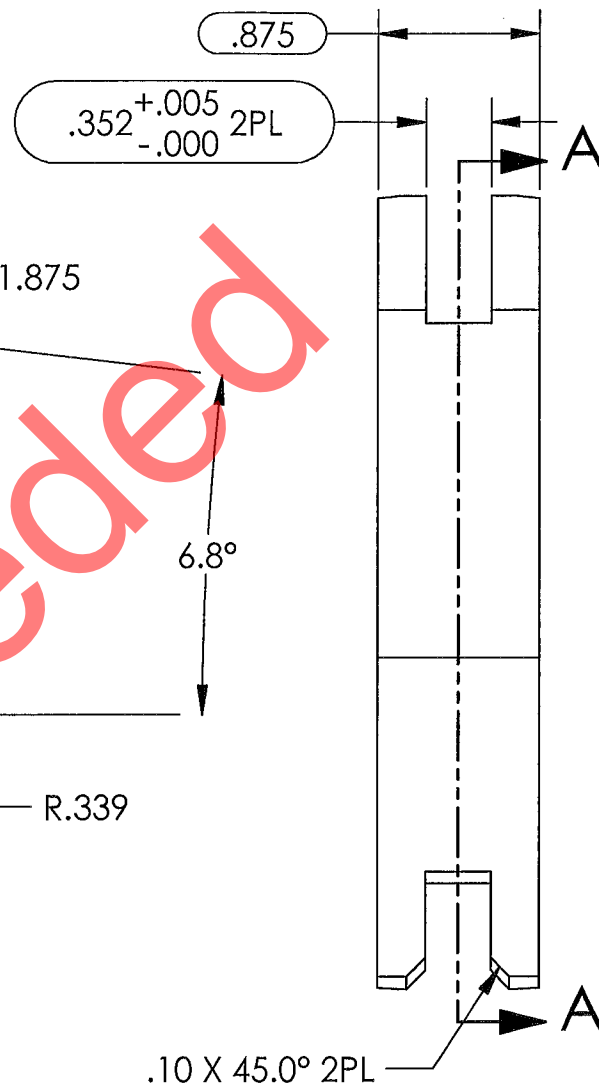
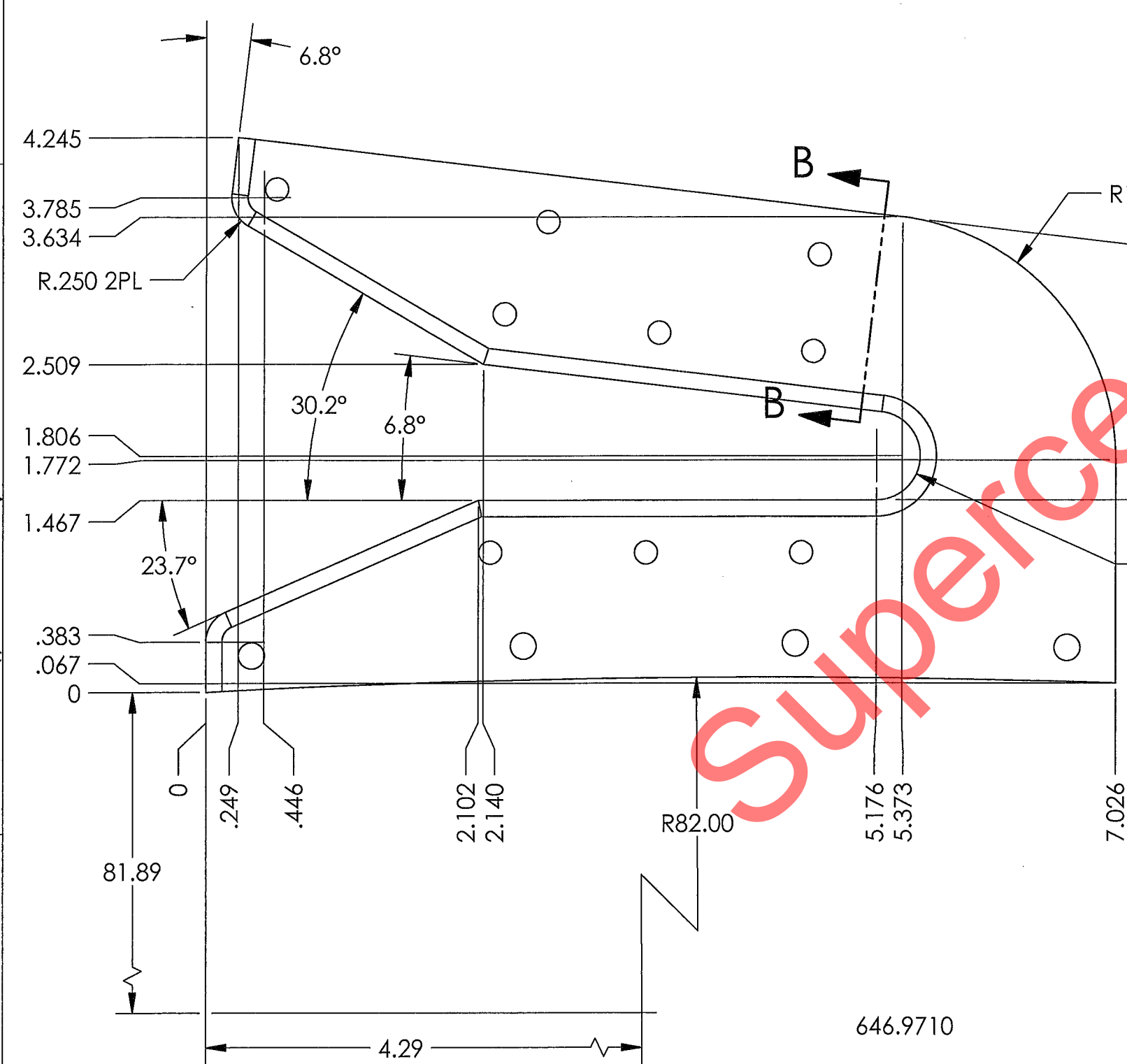
646.9701 SHOWN
646.9702, 646.9703, 646.9704, & 646.9705 TYP

1					10	646.9715	BODY	1	2 2
	1				9	646.9714	BODY	1	2 2
		1			8	646.9713	BODY	1	2 2
			1		7	646.9712	BODY	1	2 2
6	6	6	6	6	6	601.1541	LOCKNUT	MS21042L08	
A/R	A/R	A/R	A/R	A/R	5	601.2045	RTV, LOCTITE 598		
12	12	12	12	12	4	601.2764	WASHER	NAS1149FN832P	
6	6	6	6	6	3	601.2765	SCREW	MS27039-0819	
2	2	2	2	2	2	646.9711	BLADE		1
				1	1	646.9710	BODY	1	1
X						646.9705			
	X					646.9704	CUTTER SUB ASSY		
		X				646.9703	CUTTER SUB ASSY		
			X			646.9702	CUTTER SUB ASSY		
				X		646.9701	CUTTER SUB ASSY		
.9705	.9704	.9703	.9702	.9701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

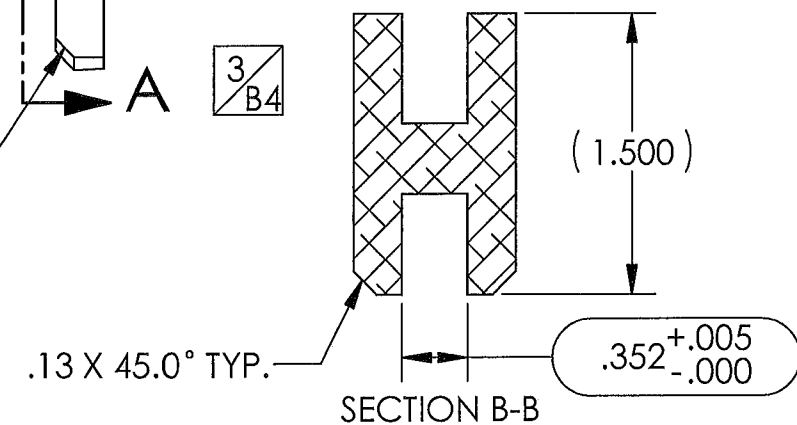
QTY		PARTS LIST	
NEXT ASSY (S)	646.9600	ORIGINAL DATE (MO-DA-YR) DRAWN BY R. ROSANO CHECKER P. BRAVO DRAWING APPROVAL P. BRAVO 05-29-09 CONTRACT No.	05-29-09
	647.1400	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°	
		DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
		CUTTER SUB ASSEMBLY	
SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.9700	REV. H
SCALE NONE		SHEET 1 OF 9	


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A
B
C
D

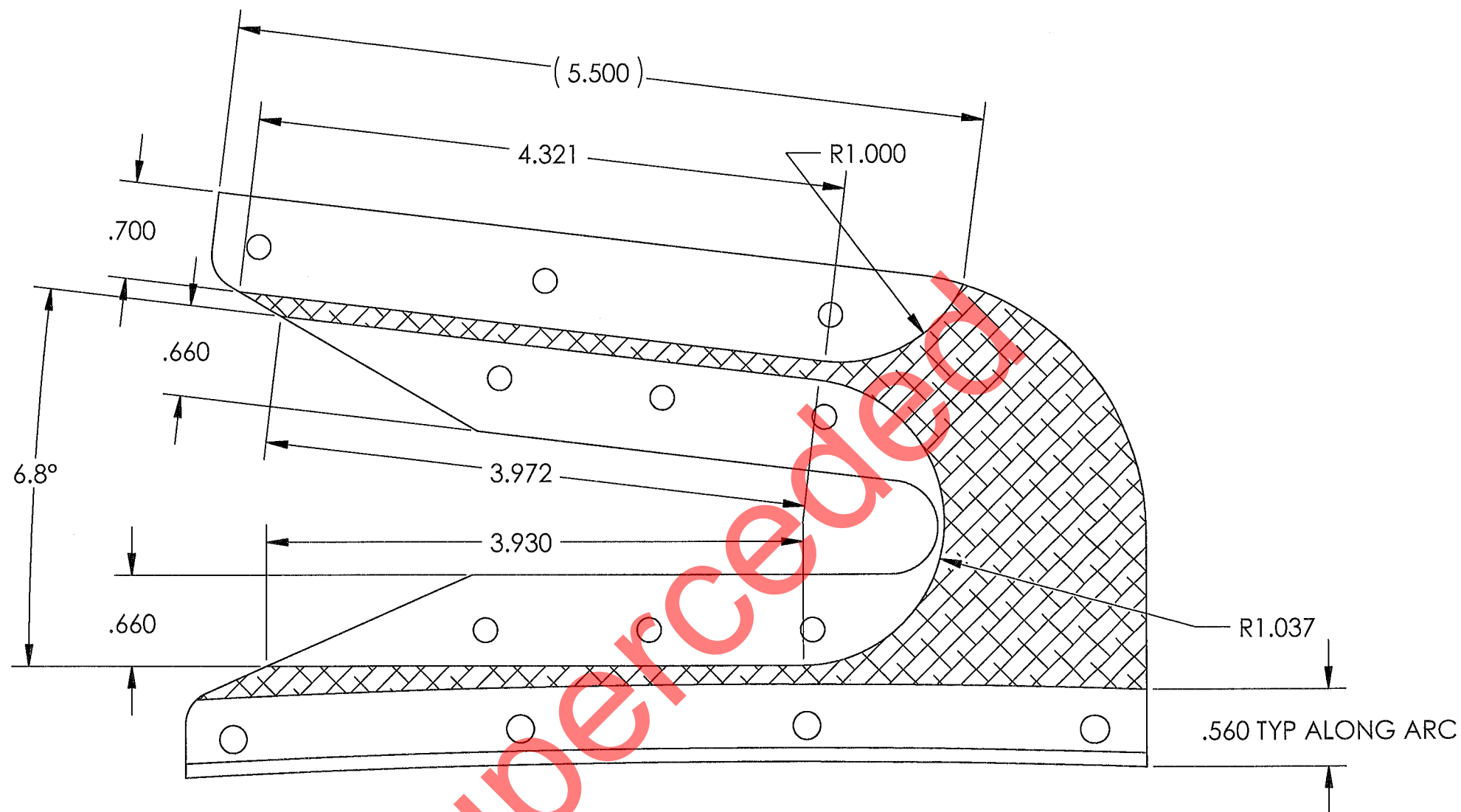


UNDER REVIEW
URN 20-010



ORIGINAL DATE (MO-DA-YR) 05-29-09		 DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 05-29-09			
CONTRACT No.		CUTTER SUB ASSEMBLY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
SIZE B	CAGE CODE 07MZ6		
SCALE NONE		SHEET 2 OF 9	

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SECTION A-A $\frac{2}{C6}$

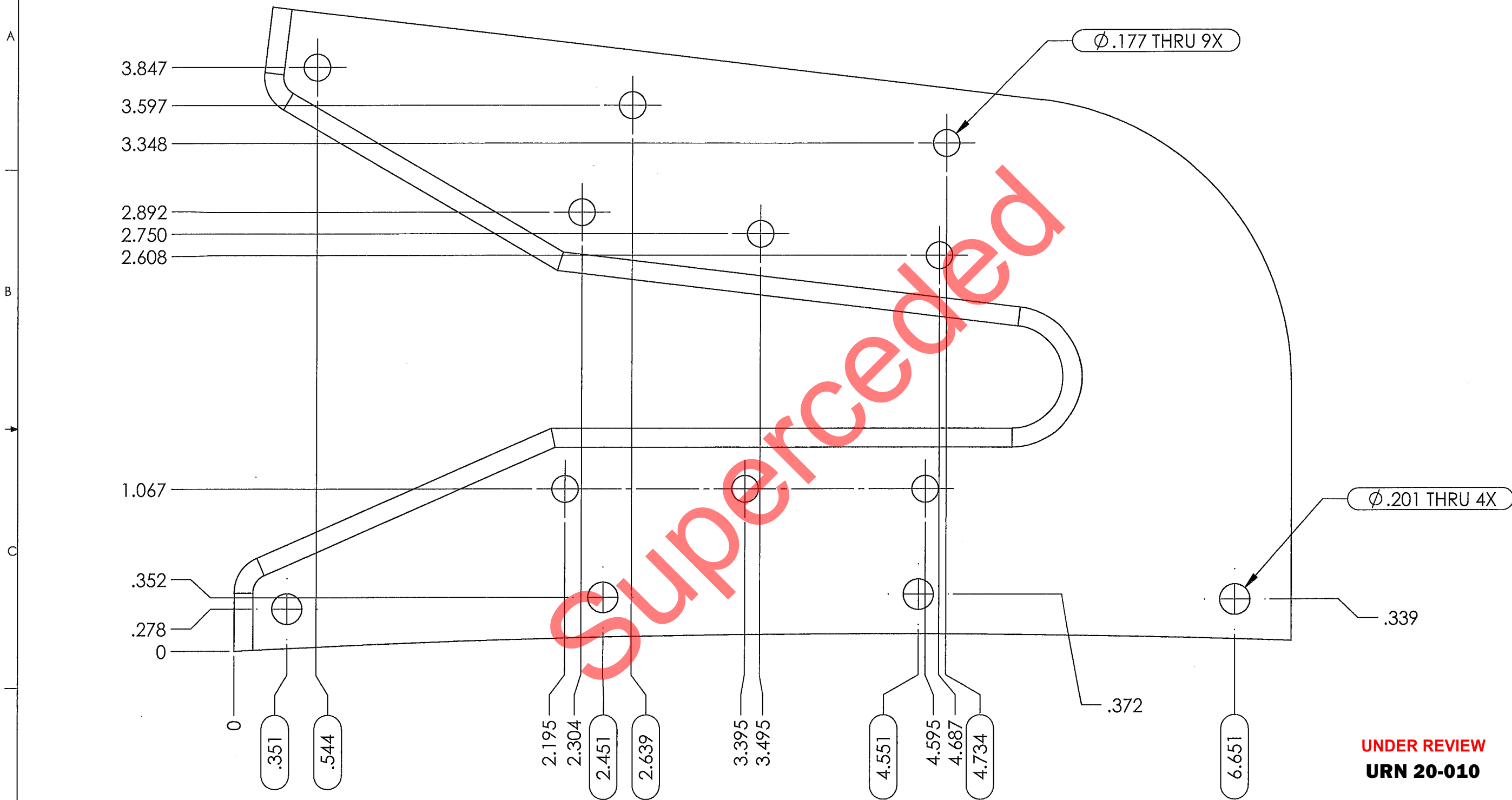
646.9710

UNDER REVIEW

URN 20-010

ORIGINAL DATE (MO-DA-YR) 05-29-09		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO	DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWING APPROVAL P. BRAVO 05-29-09		CUTTER SUB ASSEMBLY	
CONTRACT No.		SIZE B	REV. H
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		CAGE CODE 07MZ6	DWG. NO. 646.9700
SCALE NONE		SHEET 3 OF 9	

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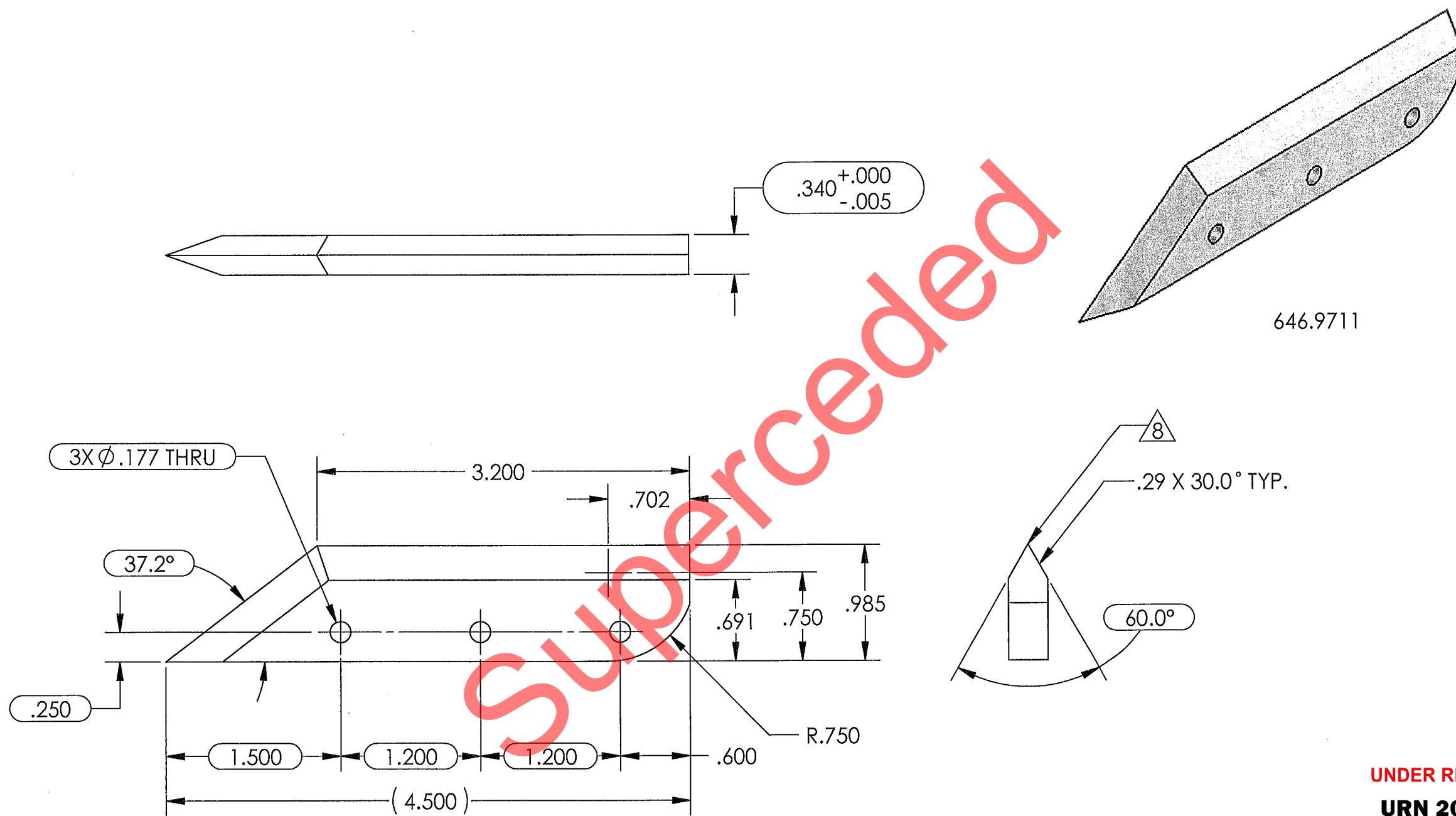
HOLE LOCATIONS +/- .002

646.9710

UNDER REVIEW
URN 20-010

ORIGINAL DATE (MO-DA-YR) 05-29-09		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 05-29-09		CUTTER SUB ASSEMBLY	
CONTRACT No.		SIZE B	REV. H
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07MZ6	DWG. NO. 646.9700
		SCALE NONE	SHEET 4 OF 9

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UNDER REVIEW
URN 20-010

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DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 05-29-09		CUTTER SUB ASSEMBLY	
CONTRACT No.		SCALE NONE	SHEET 5 OF 9
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B 07MZ6	REV. H

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A

B

C

D

3.847
3.597
3.348
2.892
2.750
2.608

1.067

.296
0

0

.544

2.195

2.246

2.304

2.639
.308

3.395

3.426

3.495

4.593

4.595

4.687

4.734

5.633

6.651

Ø.177 THRU 9X

Ø.201 THRU 5X

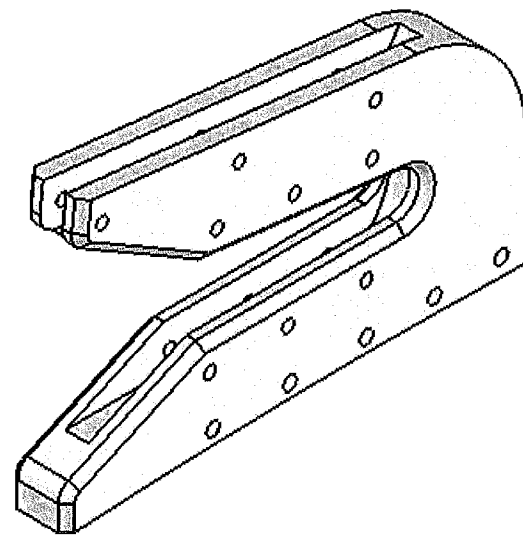
.339

.319

.329

.350

.875



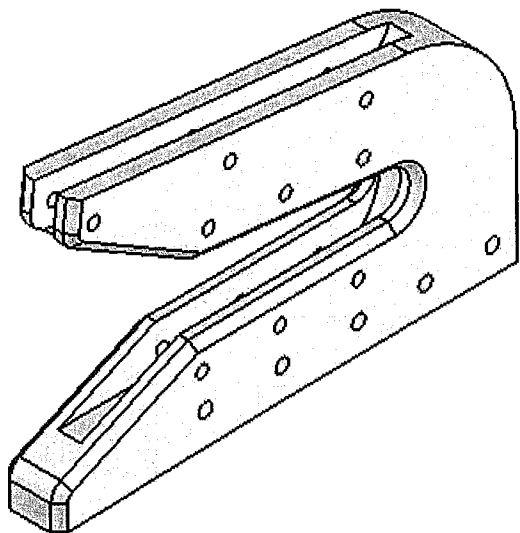
646.9712 $\triangle 9$

646.9712

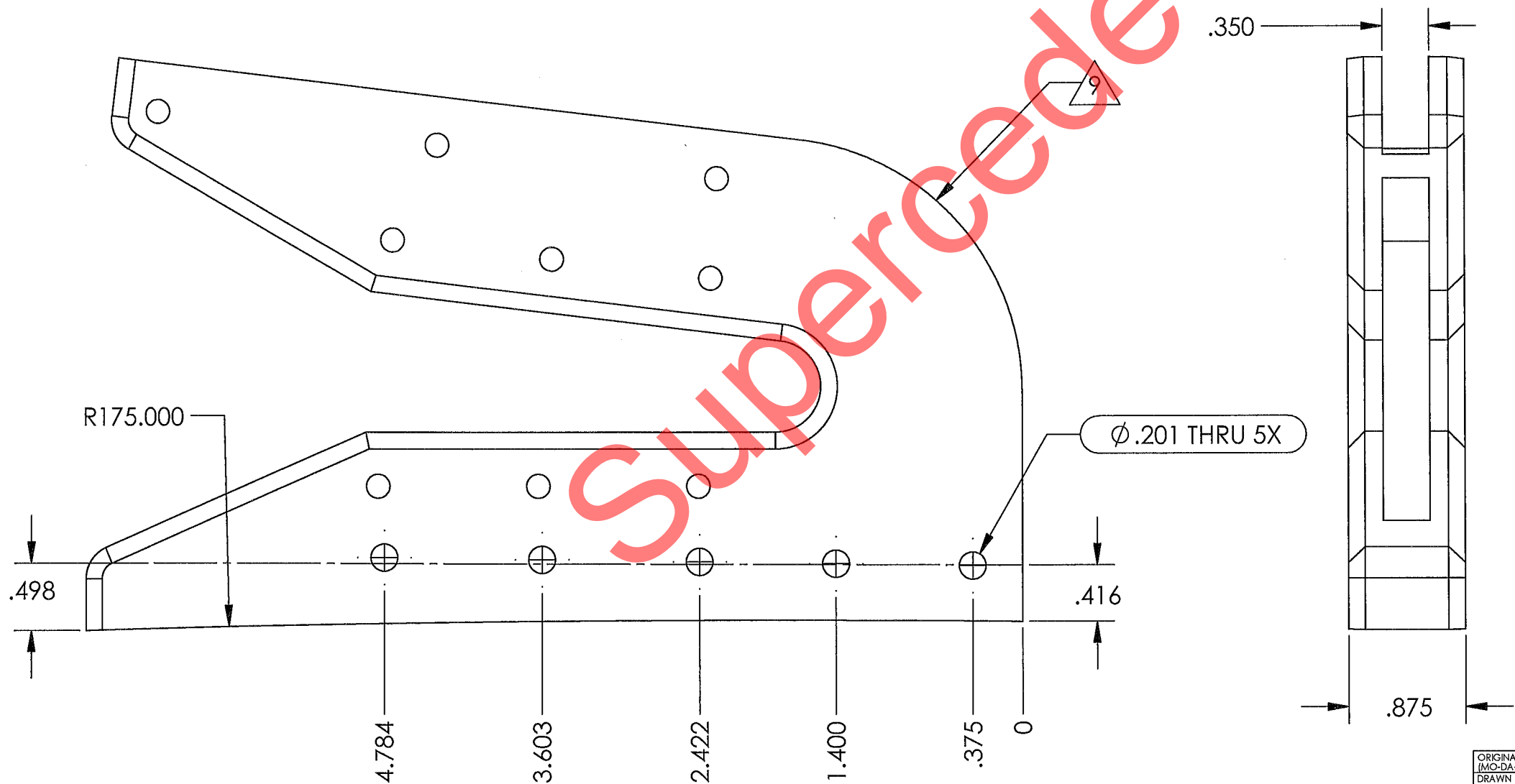
UNDER REVIEW
URN 20-010

ORIGINAL DATE (MO-DA-YR) 05-29-09		DART 3030 ENTERPRISE CT., SUITE A APICAL INDUSTRIES, INC. VISTA, CA. 92081 dba DART AEROSPACE (760)-724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 05-29-09		CUTTER SUB ASSEMBLY	
CONTRACT No.		SIZE B	REV. H
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07MZ6	DWG. NO. 646.9700
		SCALE NONE	SHEET 6 OF 9

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646.9713

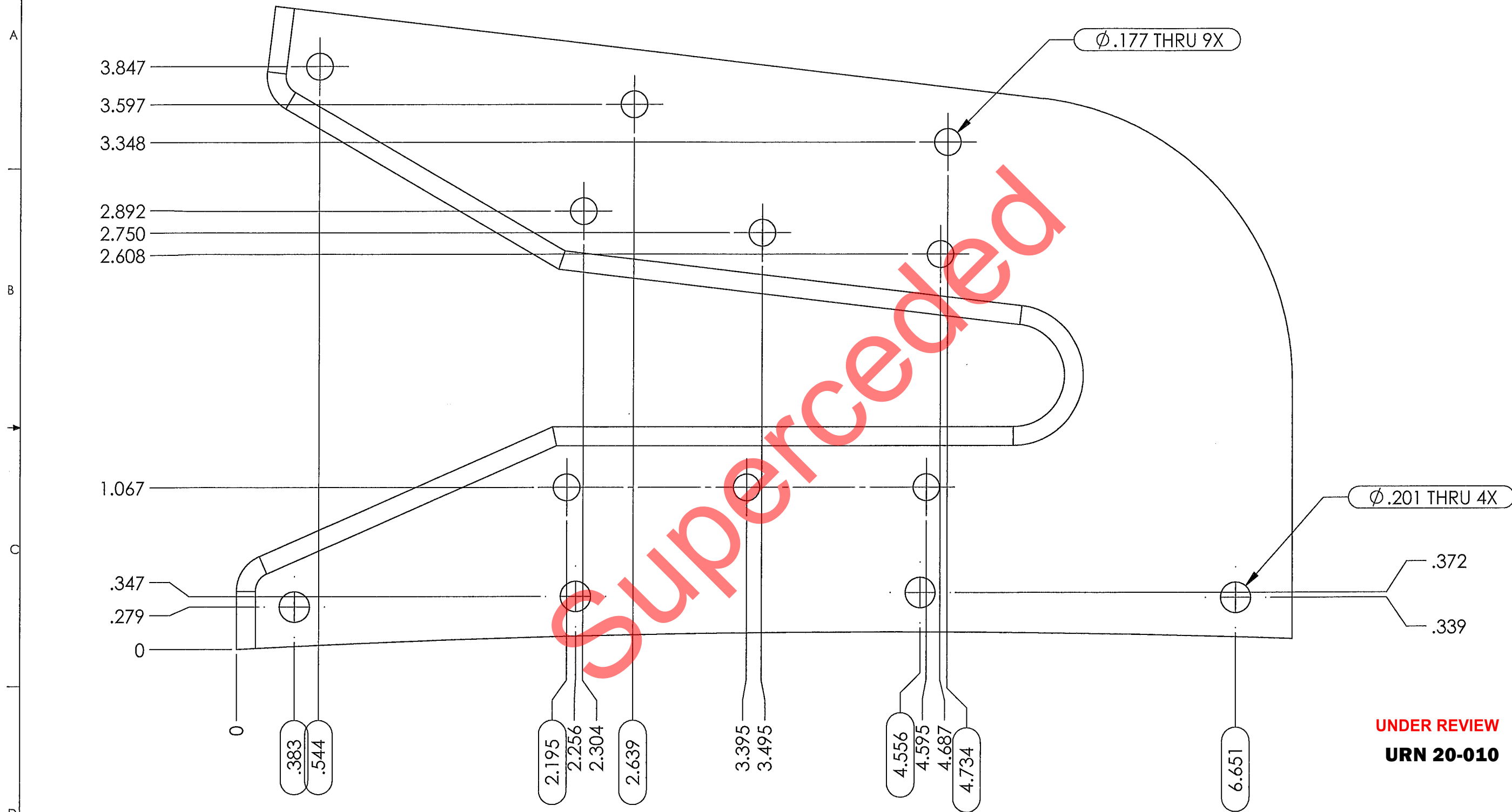


UNDER REVIEW

URN 20-010

ORIGINAL DATE (MO-DA-YR) 05-29-09		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY R. ROSANO	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 05-29-09		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		CUTTER SUB ASSEMBLY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B 07MZ6	REV. H
SCALE NONE		DWG. NO. 646.9700	SHEET 7 OF 9

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UNDER REVIEW
URN 20-010

HOLE LOCATIONS +/- .002

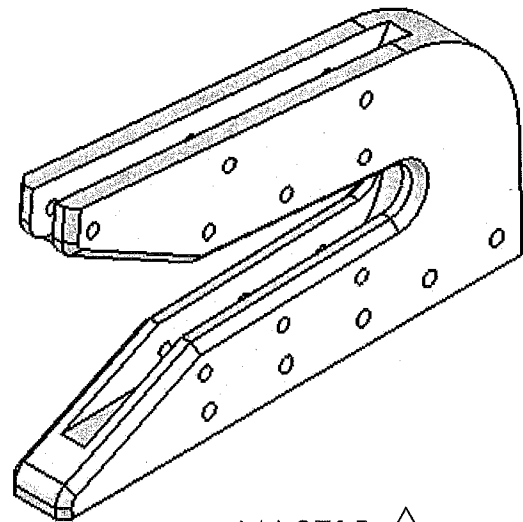
646.9714

ORIGINAL DATE (MO-DA-YR) 05-29-09		3030 ENTERPRISE CT., SUITE A	
DRAWN BY R. ROSANO	CHECKER P. BRAVO	VISTA, CA. 92081	
DRAWING APPROVAL P. BRAVO 05-29-09		(760)-724-5300	
CONTRACT No.		dba DART AEROSPACE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$			
SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.9700	REV. H
SCALE NONE			SHEET 8 OF 9

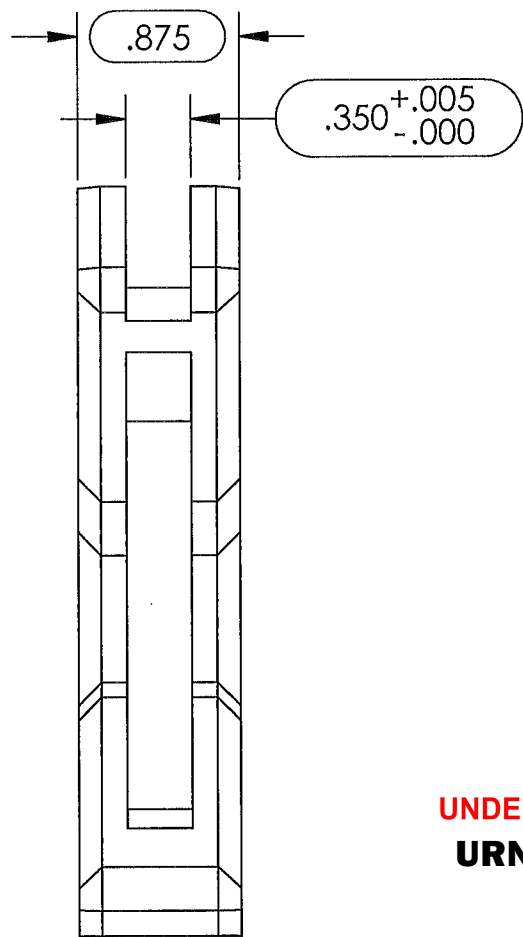
DART AEROSPACE
APICAL INDUSTRIES, INC.
CUTTER SUB ASSEMBLY

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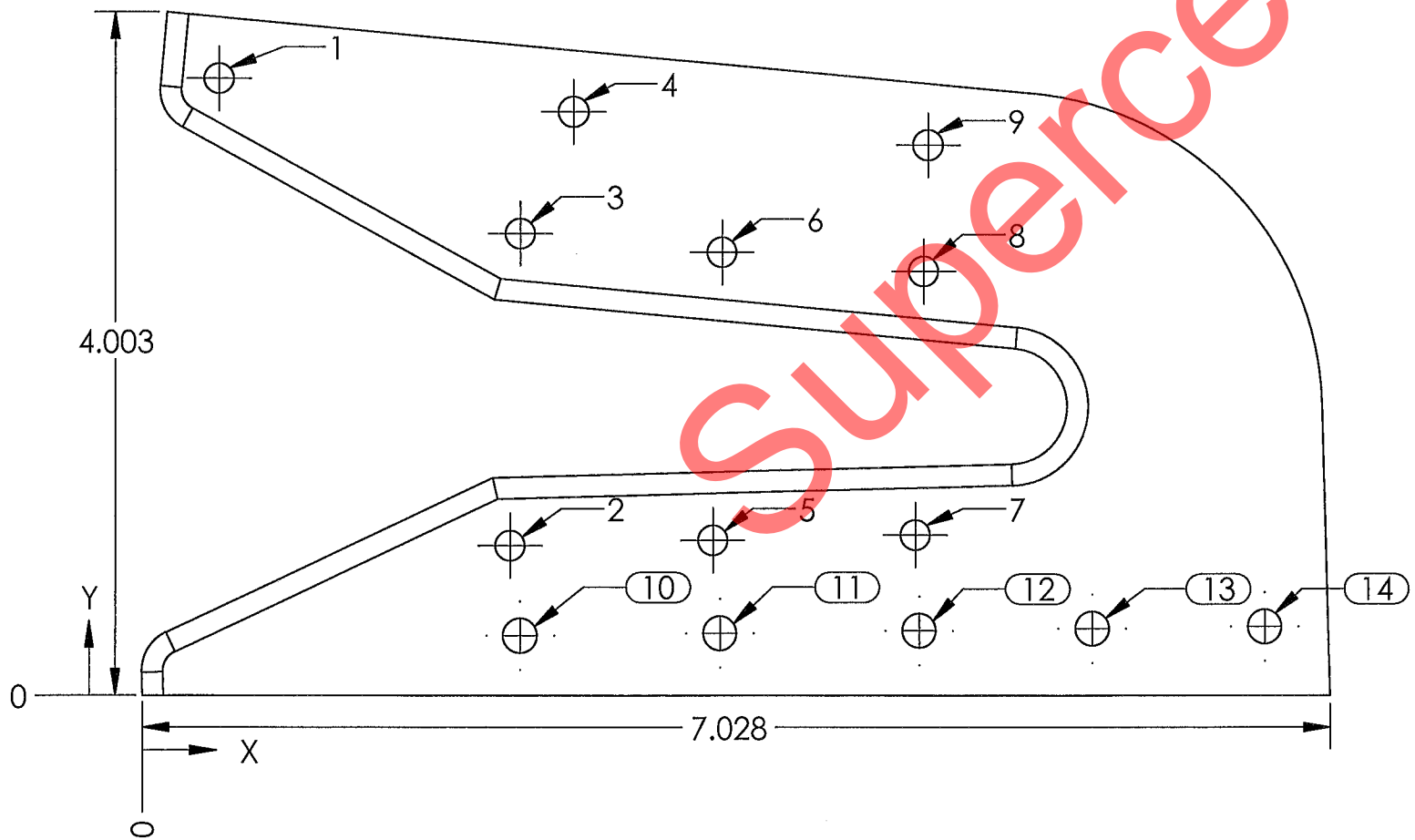
TAG	X LOC	Y LOC	SIZE
1	.451	3.613	Ø .177 THRU ALL
2	2.174	.876	
3	2.235	2.703	
4	2.552	3.417	
5	3.373	.907	
6	3.430	2.592	
7	4.573	.937	
8	4.625	2.480	
9	4.653	3.221	
10	2.233	.349	Ø .201 THRU ALL
11	3.414	.364	
12	4.595	.378	
13	5.618	.390	
14	6.643	.403	




646.9715 $\triangle 9$



UNDER REVIEW
URN 20-010



QTY		PARTS LIST			
NEXT ASSY (S)	646.9600	ORIGINAL DATE (MO-DA-YR) 05-29-09			3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300
		DRAWN BY R. ROSANO	CHECKER P. BRAVO		
		DRAWING APPROVAL P. BRAVO 05-29-09		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
		CONTRACT No.		CUTTER SUB ASSEMBLY	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE B	REV. H
				CAGE CODE 07MZ6	DWG. NO. 646.9700
				SCALE NONE	SHEET 9 OF 9



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

ENGINEERING CHANGE NOTICE NO. 06328

DWG NO. 646.9700

REV: G to H

PREPARED
BY

C.ZEHNER

DATE: 07-31-19

ECR:

N/A

DWG TITLE: CUTTER SUB ASSEMBLY

APPROVED BY:

ENGR

CASE NUMBER:

12867

EFF:

NEXT ORDER

REASON: CREATED P/N 646.9715 AND CONFIGURATION 646.9705, ADDED SHEET 9

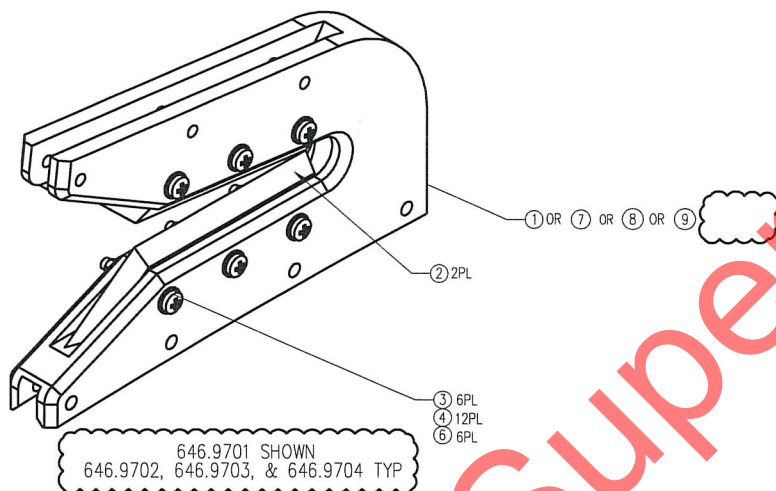
SHEET 1, ZONE B1 WAS:

REASON CODE:

CS

ACTION LIST:

1. N/A



Superseded

UNDER REVIEW

URN 20-010

DOCUMENTS EFFECTED:

☐ PATTERN

☐ MDL

☒ INSTALL INSTRUC

☒ ICA

☒ BOM

CHANGE CATEGORY

☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

☐ YES

☒ NO

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